ELSEVIER

Comput. Methods Appl. Mech. Engrg. 146 (1997) 407–408

Computer methods in applied mechanics and engineering

Author Index of Volume 146

Auricchio, F., Taylor, R.L. and Lubliner, J. Shape-memory alloys: macromodelling and numerical simulations of the superelastic behavior 281–312

Belytschko, T. see Krongauz, Y. 371–386

Conca, C., Osses, A. and Planchard, J. Added mass and damping in fluid–structure interaction 387–405

Deng, H. see Vu-Quoc, L. 135–172

Fahrenthold, E.P. and Koo, J.C. Hamiltonian particle hydrodynamics 43– 52
Freund, R.W. see Malhotra, M. 173–196

Golley, B.W. The solution of open and closed elasticas using intrinsic coordinate finite elements 127–134

Hughes, T.J.R. see Masud, A. 91–126
Hughes, T.J.R. see Stewart, J.R. 65– 89

Ko, J., Kurdila, A.J. and Pilant, M.S. Triangular wavelet based finite elements via multivalued scaling equations 1– 17
Kollmann, F.G. see Sansour, C. 351–369
Koo, J.C. see Fahrenthold, E.P. 43– 52
Krongauz, Y. and Belytschko, T. Consistent pseudo-derivatives in meshless methods 371–386
Kurdila, A.J. see Ko, J. 1– 17

Laborde, P., Toson, B. and Pesqué, J.-J. On the consistent tangent operator algorithm for thermo-plastic problems 215–230
Lanzo, A.D. see Salerno, G. 325–349
Lee, H.P. see Tan, T.H. 265–279
Leng, G.S.B. see Tan, T.H. 265–279
Li, M. The finite deformation theory for beam, plate and shell. Part I. The two-dimensional beam theory 53– 63
Lubliner, J. see Auricchio, F. 281–312
Lupu, M. see Scheiber, E. 197–214

Malhotra, M., Freund, R.W. and Pinsky, P.M. Iterative solution of multiple radiation and scattering problems in structural acoustics using a block quasi-minimal residual algorithm 173–196

Masud, A. and Hughes, T.J.R. A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems 91–126

Osses, A. see Conca, C. 387–405

Pavarino, L.F. Preconditioned conjugate residual methods for mixed spectral discretizations of elasticity and Stokes problems 19– 30
Pesqué, J.-J. see Laborde, P. 215–230
Pilant, M.S. see Ko, J. 1– 17
Pinsky, P.M. see Malhotra, M. 173–196
Planchard, J. see Conca, C. 387–405

Rachowicz, W. An anisotropic *h*-adaptive finite element method for compressible Navier–Stokes equations 231–252

Sahoo, R.K. and Sastri, V.M.K. Numerical investigation of free convective flow in divergent channels 31– 41
Salerno, G. and Lanzo, A.D. A nonlinear beam finite element for the post-buckling analysis of plane frames by Koiter's perturbation approach 325–349
Sansour, C. and Kollmann, F.G. On theory and numerics of large viscoplastic deformation 351–369
Sastri, V.M.K. see Sahoo, R.K. 31– 41
Scheiber, E. and Lupu, M. Numerical solutions to inverse problems of general planar motion 197–214
Stewart, J.R. and Hughes, T.J.R. *h*-Adaptive finite element computation of time-harmonic exterior acoustics problems in two dimensions 65– 89

Tan, T.H., Lee, H.P. and Leng, G.S.B. Dynamic stability of a radially rotating beam subjected to base excitation 265–279
Taylor, R.L. see Auricchio, F. 281–312
Toson, B. see Laborde, P. 215–230

Vu-Quoc, L. and Deng, H. Dynamics of geometrically-exact sandwich beams/1-D plates: computational aspects 135–172

Williams, F.W. see Ye, J. 313–323

Yavin, Y. Inclination control of the motion of a rolling disk by using a rotor 253–263
Ye, J. and Williams, F.W. Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems 313–323

ELSEVIER

Comput. Methods Appl. Mech. Engrg. 146 (1997) 409–412

Computer methods in applied mechanics and engineering

Subject Index of Volume 146

Asymptotic methods
A nonlinear beam finite element for the post-buckling analysis of plane frames by Koiter's perturbation approach, G. Salerno and A.D. Lanzo 325–349

Boundary element methods
h-Adaptive finite element computation of time-harmonic exterior acoustics problems in two dimensions, J.R. Stewart and T.J.R. Hughes 65– 89

Calculus of variations
The solution of open and closed elasticas using intrinsic coordinate finite elements, B.W. Golley 127–134

Coupled problems
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
Added mass and damping in fluid–structure interaction, C. Conca, A. Osses and J. Planchard 387–405

Dynamics
Dynamic stability of a radially rotating beam subjected to base excitation, T.H. Tan, H.P. Lee and G.S.B. Leng 265–279
Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems, J. Ye and F.W. Williams 313–323

Elasticity
Preconditioned conjugate residual methods for mixed spectral discretizations of elasticity and Stokes problems, L.F. Pavarino 19– 30
The solution of open and closed elasticas using intrinsic coordinate finite elements, B.W. Golley 127–134
Dynamic stability of a radially rotating beam subjected to base excitation, T.H. Tan, H.P. Lee and G.S.B. Leng 265–279
A nonlinear beam finite element for the post-buckling analysis of plane frames by Koiter's perturbation approach, G. Salerno and A.D. Lanzo 325–349
Consistent pseudo-derivatives in meshless methods, Y. Krongauz and T. Belytschko 371–386

Electromagnetic fields
Inclination control of the motion of a rolling disk by using a rotor, Y. Yavin 253–263

Finite element and matrix methods
Triangular wavelet based finite elements via multivalued scaling equations, J. Ko, A.J. Kurdila and M.S. Pilant 1– 17

Preconditioned conjugate residual methods for mixed spectral discretizations of elasticity and Stokes problems, L.F. Pavarino 19– 30
Numerical investigation of free convective flow in divergent channels, R.K. Sahoo and V.M.K. Sastri 31– 41
The finite deformation theory for beam, plate and shell, M. Li 53– 63
h-Adaptive finite element computation of time-harmonic exterior acoustics problems in two dimensions, J.R. Stewart and T.J.R. Hughes 65– 89
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
The solution of open and closed elasticas using intrinsic coordinate finite elements, B.W. Golley 127–134
Dynamics of geometrically-exact sandwich beams/1-D plates: computational aspects, L. Vu-Quoc and H. Deng 135–172
Numerical solutions to inverse problems of general planar motion, E. Scheiber and M. Lupu 197–214
An anisotropic *h*-adaptive finite element method for compressible Navier–Stokes equation, W. Rachowicz 231–252
Shape-memory alloys: macromodelling and numerical simulations of the superelastic behavior, F. Auricchio, R.L. Taylor and J. Lubliner 281–312
Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems, J. Ye and F.W. Williams 313–323
A nonlinear beam finite element for the post-buckling analysis of plane frames by Koiter's perturbation approach, G. Salerno and A.D. Lanzo 325–349
On theory and numerics of large viscoplastic deformation, C. Sansour and F.G. Kollmann 351–369
Consistent pseudo-derivatives in meshless methods, Y. Krongauz and T. Belytschko 371–386

Fluid mechanics
Preconditioned conjugate residual methods for mixed spectral discretizations of elasticity and Stokes problems, L.F. Pavarino 19– 30
Numerical investigation of free convective flow in divergent channels, R.K. Sahoo and V.M.K. Sastri 31– 41
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
An anisotropic *h*-adaptive finite element method for compressible Navier–Stokes equation, W. Rachowicz 231–252
Added mass and damping in fluid–structure interaction, C. Conca, A. Osses and J. Planchard 387–405

General Rayleigh–Ritz and Galerkin techniques
h-Adaptive finite element computation of time-harmonic exterior acoustics problems in two dimensions, J.R. Stewart and T.J.R. Hughes 65– 89
Consistent pseudo-derivatives in meshless methods, Y. Krongauz and T. Belytschko 371–386

Incompressible and near incompressible media
Preconditioned conjugate residual methods for mixed spectral discretizations of elasticity and Stokes problems, L.F. Pavarino 19– 30
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
Inclination control of the motion of a rolling disk by using a rotor, Y. Yavin 253–263

Kinematics
Numerical solutions to inverse problems of general planar motion, E. Scheiber and M. Lupu 197–214

Dynamic stability of a radially rotating beam subjected to base excitation, T.H. Tan, H.P. Lee and G.S.B. Leng 265–279

Matrix calculus
Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems, J. Ye and F.W. Williams 313–323

Miscellaneous topics
Numerical investigation of free convective flow in divergent channels, R.K. Sahoo and V.M.K. Sastri 31– 41

Nonlinear dynamics of systems
Inclination control of the motion of a rolling disk by using a rotor, Y. Yavin 253–263
Dynamic stability of a radially rotating beam subjected to base excitation, T.H. Tan, H.P. Lee and G.S.B. Leng 265–279

Nonlinear mechanics
Hamiltonian particle hydrodynamics, E.P. Fahrenthold and J.C. Koo 43– 52
The finite deformation theory for beam, plate and shell, M. Li 53– 63
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
The solution of open and closed elasticas using intrinsic coordinate finite elements, B.W. Golley 127–134
Dynamic stability of a radially rotating beam subjected to base excitation, T.H. Tan, H.P. Lee and G.S.B. Leng 265–279
On theory and numerics of large viscoplastic deformation, C. Sansour and F.G. Kollmann 351–369

Numerical solution procedures
Triangular wavelet based finite elements via multivalued scaling equations, J. Ko, A.J. Kurdila and M.S. Pilant 1– 17
Preconditioned conjugate residual methods for mixed spectral discretizations of elasticity and Stokes problems, L.F. Pavarino 19– 30
Hamiltonian particle hydrodynamics, E.P. Fahrenthold and J.C. Koo 43– 52
h-Adaptive finite element computation of time-harmonic exterior acoustics problems in two dimensions, J.R. Stewart and T.J.R. Hughes 65– 89
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
On the consistent tangent operator algorithm for thermo-plastic problems, P. Laborde, B. Toson and J.-J. Pesqué 215–230
An anisotropic *h*-adaptive finite element method for compressible Navier–Stokes equation, W. Rachowicz 231–252
Shape-memory alloys: macromodelling and numerical simulations of the superelastic behavior, F. Auricchio, R.L. Taylor and J. Lubliner 281–312
Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems, J. Ye and F.W. Williams 313–323
Consistent pseudo-derivatives in meshless methods, Y. Krongauz and T. Belytschko 371–386

Plasticity
On the consistent tangent operator algorithm for thermo-plastic problems, P. Laborde, B. Toson and J.-J. Pesqué 215–230
Shape-memory alloys: macromodelling and numerical simulations of the superelastic behavior, F. Auricchio, R.L. Taylor and J. Lubliner 281–312

Shells and plates
Dynamics of geometrically-exact sandwich beams/1-D plates: computational aspects, L. Vu-Quoc and H. Deng 135–172

Solutions of ordinary and partial differential equations
Added mass and damping in fluid–structure interaction, C. Conca, A. Osses and J. Planchard 387–405

Spline approximation
Numerical solutions to inverse problems of general planar motion, E. Scheiber and M. Lupu 197–214

Stability in fluid mechanics
Added mass and damping in fluid–structure interaction, C. Conca, A. Osses and J. Planchard 387–405

Stability in structural mechanics
Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems, J. Ye and F.W. Williams 313–323
A nonlinear beam finite element for the post-buckling analysis of plane frames by Koiter's perturbation approach, G. Salerno and A.D. Lanzo 325–349

Structural mechanics
The solution of open and closed elasticas using intrinsic coordinate finite elements, B.W. Golley 127–134
Dynamics of geometrically-exact sandwich beams/1-D plates: computational aspects, L. Vu-Quoc and H. Deng 135–172
Dynamic stability of a radially rotating beam subjected to base excitation, T.H. Tan, H.P. Lee and G.S.B. Leng 265–279
Quadratic representation of a nonlinear dynamic stiffness matrix and related eigenvalue problems, J. Ye and F.W. Williams 313–323

Subsonic flow
An anisotropic *h*-adaptive finite element method for compressible Navier–Stokes equation, W. Rachowicz 231–252

Systems of linear and nonlinear simultaneous equations
The solution of open and closed elasticas using intrinsic coordinate finite elements, B.W. Golley 127–134

Thermal effects and thermodynamics
Numerical investigation of free convective flow in divergent channels, R.K. Sahoo and V.M.K. Sastri 31– 41
On the consistent tangent operator algorithm for thermo-plastic problems, P. Laborde B. Toson and J.-J. Pesqué 215–230

Viscoelastic and viscoplastic media
On theory and numerics of large viscoplastic deformation, C. Sansour and F.G. Kollmann 351–369

Viscous flow
A space–time Galerkin/least-squares finite element formulation of the Navier–Stokes equations for moving domain problems, A. Masud and T.J.R. Hughes 91–126
An anisotropic *h*-adaptive finite element method for compressible Navier–Stokes equation, W. Rachowicz 231–252

Wave motion
Hamiltonian particle hydrodynamics, E.P. Fahrenthold and J.C. Koo 43– 52